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Yi-Hua Xu, Yvonne P. Dragan, Harold A. Campbell and Henry C. Pitot

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Steven C. Cassidy and David F. Teitel

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**Title**

CVM: a storage virtualization system for cluster in SAN.

**Source**

Mini-Micro Systems, {Mini-Micro-Syst-China}, June 2006, vol. 27, no. 6, p. 1113-19, 17 refs, CODEN: XWJXEH, ISSN: 1000-1220.

Publisher: Mini-Micro Syst., China, China.

**Author(s)**[Li-Bi-gang](#), [Shu-Ji-wu](#), [Mu-Fei](#), [Zheng-Wei-min](#).**Author affiliation**

Li Bi-gang, Shu Ji-wu, Mu Fei, Zheng Wei-min, Dept. of Comput. Sci. &amp; Technol., Tsinghua Univ., Beijing, China.

**Abstract**

Virtualization system such as LVM can support online resizing and reconfiguration, snapshot and various RAID levels. But the traditional storage virtualization system is unfit for the cluster and storage area networks (SANs). With the development of SANs, the cluster virtualization management system is needed urgently. This paper proposes one model for CVM: a storage virtualization system for cluster in SAN environment, and gives some key technologies; the prototype implementation and its performance test. The result shows that the CVM can manage the storage resource in SAN easily for cluster and provide some advance functions such as online backup, remote mirror and so on. The CVM also has failure tolerance and gives a friendly management **interface** for the users.

**Descriptors**

[FAULT-TOLERANT-COMPUTING](#); [FILE-ORGANISATION](#); [STORAGE-AREA-NETWORKS](#);  
[USER-INTERFACE-MANAGEMENT-SYSTEMS](#); [VIRTUAL-STORAGE](#); [WORKSTATION-CLUSTERS](#).

**Classification codes**

B6210L Computer-communications\*;  
C6120 File-organisation\*;  
C6180 User-interfaces;  
C5620L Local-area-networks;  
C5320 Digital-storage.

**Keywords**

**cluster-volume-manager**; storage-virtualization-system; storage-area- network; cluster-virtualization-management-system; online-backup; remote-mirror; failure-tolerance; **user-friendly-management-interface**; snapshot; storage-resource-management.

**Treatment codes**

P Practical.

**Language**

Chinese.

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Journal-paper.

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**Title**

**Volume managers in Linux.**

**Conference information**

Proceedings of the FREENIX Track. 2001 USENIX Annual Technical Conference, Boston, MA, USA, 25-30 June 2001.

**Source**

Proceedings of the FREENIX Track. 2001 USENIX Annual Technical Conference, 2001, p. 185-97, 15 refs, pp. 308, ISBN: 1-880446-10-3.  
Publisher: USENIX Assoc, Berkeley, CA, USA.






**Author(s)**

Teigland-D, Mauelshagen-H.

**Abstract**

A **volume manager** is a subsystem for online disk storage management which has become a de-facto standard across UNIX implementations and is a serious enabler for Linux in the enterprise computing area. It adds an additional layer between the physical peripherals and the **I/O interface** in the kernel to present a logical view of disks, unlike current partition schemes where disks are divided into fixed-size sections. In addition to providing a logical level of management, a **volume manager** will often implement one or more levels of software RAID to improve performance or reliability. Advanced logical management tools and software RAID are the specialties of the Logical **Volume Manager** (LVM) and Multiple Devices (MD) drivers respectively. These are the two most widely used Linux **volume managers** today. This paper describes the current technologies available in Linux and new work in the area of **volume** management.

**Descriptors**

 DEVICE-DRIVERS;  OPERATING-SYSTEM-KERNELS;  RAID;  STORAGE-MANAGEMENT;  
 UNIX.

**Classification codes**

C6150J Operating-systems\*;  
C6120 File-organisation;  
C6150E General-utility-programs.

**Keywords**

Linux; online-disk-storage-management; UNIX; enterprise-computing; kernel; software-RAID; logical-management-tools; **Logical-Volume- Manager**; Multiple-Devices; drivers.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

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**Title**

The Vinum **Volume Manager**.

**Conference information**

Proceedings of the FREENIX Track. 1999 USENIX Annual Technical Conference, Monterey, CA, USA, 6-11 June 1999.

**Source**

Proceedings of the FREENIX Track. 1999 USENIX Annual Technical Conference, 1999, p. 57-68, 13 refs, pp. v+230, ISBN: 1-880446-32-4.

Publisher: USENIX Assoc, Berkeley, CA, USA.

**Author(s)**

Lehey-G.





**Author affiliation**

Lehey, G., Nan Yang Comput. Services Ltd., Singapore.

**Abstract**

The Vinum **Volume Manager** is a block device driver which implements virtual disk drives. It isolates disk hardware from the block device **interface** and maps data in ways which result in an increase in flexibility, performance and reliability compared to the traditional slice view of disk storage. Vinum implements the RAID-0, RAID-1 and RAID-5 models, both individually and in combination.

**Descriptors**

 DEVICE-DRIVERS;  RAID;  UNIX;  VIRTUAL-STORAGE.

**Classification codes**

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**Vinum-Volume-Manager**; block-device-driver; virtual-disk-drives; disk- hardware; **block-device-interface**; slice-view; disk-storage; RAID-0; RAID-1; RAID-5-models.

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**Title**

OS on Super Server NX7000 series, "HP-UX".

**Source**

NEC Technical Journal, {NEC-Tech-J-Japan}, Aug. 1997, vol. 50, no. 8, p. 35-42, 0 refs, CODEN: NECGEZ, ISSN: 0285-4139.  
Publisher: NEC, Japan.

**Author(s)**

Takahashi-Y., Higashi-K., Sone-T., Oizumi-T.

**Author affiliation**

Takahashi, Y., Higashi, K., Sone, T., Oizumi, T., 2nd Comput. Software Div., NEC, Japan.

**Abstract**

The operating system (OS) on NEC Super Server NX7000 Series is HP-UX. An OS provides an **interface** with a certain abstraction to applications. This paper describes HP-UX internal architecture with its process management subsystem, memory management subsystem and Logical **Volume Manager** (LVM). In the process management part, a conceptual mode for process and thread, process scheduler and process invocation and destroy are described. In the memory management part, physical memory control and the address space model under HP-UX on PA-RISC are described. In the LVM part, functional perspective, or disk mirroring and disk striping, and its structure are described. Finally, the future direction and plan of HP-UX are explained.

**Descriptors**

 OPERATING-SYSTEMS-COMPUTERS;  STORAGE-MANAGEMENT.

**Classification codes**

C61501 Operating-systems\*;

C6120 File-organisation.

**Keywords**

operating-system; NEC-Super-Server-NX7000; HP-UX; internal-architecture; process-management; memory-management; **Logical-Volume- Manager**; disk-mirroring; disk-striping.

**Treatment codes**

P Practical.

**Language**

Japanese.

**Publication type**

Journal-paper.

**Availability**

SICI: 0285-4139(199708)50:8L:35:SSNS; 1-P.

**Publication year**

1997.

**Publication date**

19970800.

**Edition**

1997042.

**Copyright statement**

Copyright 1997 IEE.

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---

☒ **document 5 of 5** Order Document

**Inspec - 1898 to date (INZZ)**

**Accession number & update**

0004183610 20070101.

**Title**

**Volume management by the book: the NASTore Volume Manager.**

**Conference information**

Digest of Papers: Eleventh IEEE Symposium on Mass Storage Systems (Cat. No.91CH3039-5), Monterey, CA, USA, 7-10 Oct. 1991.

Sponsor(s): IEEE.

**Source**

Digest of Papers. Eleventh IEEE Symposium on Mass Storage Systems (Cat. No.91CH3039-5), 1991, p. 95-9, 5 refs, pp. xi+161, ISBN: 0-8186-2155-9.

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA.

**Author(s)**

Ross-B, Richards-J.

**Author affiliation**

Ross, B., Richards, J., NASA Ames Res. Center, Moffett Field, CA.

**Abstract**

The NASTore **Volume Manager** provides controlled access to removable media under UNIX. It is compatible with the latest informal consensus of the IEEE Storage System Standards Working Group. The modular design allows it to manage robotic and manual drives of various types in many locations: a UNIX daemon fields requests and passes them to the appropriate 'Repository Controller' based on the medium and location of the **volume**. At NAS the repositories are a vault and a farm of StorageTek ACS robots. Access permissions are handled analogously to the UNIX **file** system, with noaccess-read-readwrite separately assignable for owner, group, and world. A suite of user utilities allows **volume** allocation, mounting, moving, listing, access modification, and deallocation to be performed on the UNIX command line; a programmatic **interface** allows programs (such as a **file migration manager**) to accomplish the same functions. Initial testing, operational experience, and possible improvements are discussed.

**Descriptors**

 FILE-ORGANISATION;  MAGNETIC-DISC-STORAGE;  MAGNETIC-TAPE-STORAGE.

**Classification codes**

C5320C Storage-on-moving-magnetic-media\*.

**Keywords**

robotic-drives; **NASTore-Volume-Manager**; removable-media; manual-drives; Repository-Controller; StorageTek-ACS-robots; **file-migration- manager**.

**Treatment codes**P Practical.**Language**

English.

**Publication type**Conference-paper.**Availability**

CCCC: CH3039-5/91/0000-0095\$01.00.

**Digital object identifier**

10.1109/MASS.1991.160217.

**Publication year**

1991.

**Publication date**

19910000.

**Edition**

1992030.

**Copyright statement**

Copyright 1992 IEE.

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### Patents

Set Items Description

- S1 2470318 S UMD OR CD()ROM OR DVD OR STORAGE OR DISK OR DISKS OR DISC OR DISCS OR DISCOID? ? OR CARTRIDGE? ? OR FLASH OR SD OR (MULTIMEDIA OR MULTI()MEDIA OR PC OR MMC OR ATA OR SECURE()DIGITAL)()CARD? ? OR DONGLE? ? OR MICRO()VAULT()TINY? ? OR TAPE? ?
- S2 906460 S VOLUME? ?
- S3 219028 S (S1 OR S2) (5N) (MANAGE? ? OR MANAGING OR MANAGEMENT OR CONTROL?? OR CONTROLLED OR CONTROLLING OR MANIPULATE? ? OR MANIPULATING OR MANIPULATION? ?)
- S4 103095 S (FILE? ? OR CONTENT? ? OR FOLDER? ? ) (5N) (MANAGE? ? OR MANAGING OR MANAGEMENT OR CONTROL?? OR CONTROLLED OR CONTROLLING OR MANIPULATE? ? OR MANIPULATING OR MANIPULATION? ?)
- S5 18347 S S4 (30N) (S1 OR S2)
- S6 13901 S METADATA OR META()DATA
- S7 262 S S6 (10N) (HISTORY OR HISTORICAL OR (PAST OR PREVIOUS OR PRIOR OR EARLIER)(3W)( TRANSACTION? ? OR ACTIVITY OR ACTIVITIES OR ACTION? ? OR EVENT? ?))
- S8 134274 S GUI OR GUIS OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()ICON()MENU()POINTER()INTERFACE? ?
- S9 1 S (S3 OR S5) (30N) S7 (30N) S8
- S10 7707867 S DISPLAY??? OR INTERFACE? ? OR VIEW??? OR SCREEN? ? OR MONITOR? ? OR SHOW OR SHOWS OR SHOWING OR PRESENT???
- S11 3 S (S3 OR S5) (30N) S7 (30N) S10
- S12 2 S S11 NOT S9
- S13 2225 S S6 (10N) (ACCESS OR PERMISSION? ? OR SECURITY OR AUTHORI? OR RIGHTS OR PRIVILEGES)
- S14 79 S (S3 OR S5) (30N) S13 (30N) (S10 OR S8)
- S15 21 S (S3 OR S5) (30N) S13 (30N) S8
- S16 11 S S15 AND AY=1963:2002
- S17 11 IDPAT (sorted in duplicate/non-duplicate order)
- S18 11 IDPAT (primary/non-duplicate records only)
- S19 11 S S18 NOT (S9 OR S12)
- S20 367218 S (S1 OR S2) (5N) (EDIT?? OR EDITING OR MOVE? ? OR MOVING OR CREATE? ? OR CREATING OR DELETE? ? OR DELETING OR DELETION? ? OR READ OR WRITE OR UPDATE? ? OR UPDATING OR UP() (DATE? ? OR DATING) OR ADD OR ADDITION OR CHANGE? ? OR CHANGING OR ALTER? OR MODIFY OR MODIFICATION? ? OR MODIFIED OR MODIFYING OR INSERT?? OR INSERTING OR INSERTION? ?)
- S21 162712 S (FILE? ? OR CONTENT? ? OR FOLDER? ? ) (5N) (EDIT?? OR EDITING OR MOVE? ? OR MOVING OR CREATE? ? OR CREATING OR DELETE? ? OR DELETING OR DELETION? ? OR READ OR WRITE OR UPDATE? ? OR



UPDATING OR UP() (DATE? ? OR DATING) OR ADD OR ADDITION OR CHANGE? ? OR CHANGING OR ALTER? OR  
MODIFY OR MODIFICATION? ? OR MODIFIED OR MODIFYING OR INSERT?? OR INSERTING OR INSERTION? ? )

S22 27086 S S21 (30N) (S1 OR S2)  
S23 4 S (S20 OR S22) (30N) S7 (30N) S8  
S24 3 S S23 NOT (S9 OR S12 OR S19)  
S25 3 IDPAT (sorted in duplicate/non-duplicate order)  
S26 3 IDPAT (primary/non-duplicate records only)  
S27 8 S (S20 OR S22) (30N) S13 (30N) S8  
S28 6 S S27 NOT (S9 OR S12 OR S19 OR S26)  
S29 3 S S28 AND AY=1963:2002  
S30 3 IDPAT (sorted in duplicate/non-duplicate order)  
S31 1 IDPAT (primary/non-duplicate records only)

; show files

[File 348] EUROPEAN PATENTS 1978-2006/ 200704

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*\*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] PCT FULLTEXT 1979-2007/UB=20070125UT=20070118 OR INSERT?? OR INSERTION??

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*\*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 350] Derwent WPIX 1963-2006/UD=200706

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*\*File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit  
<http://www.dialog.com/dwpi/>.*

Good art but wrong date

9/5K/1 (Item 1 from file: 349)

PCT FULLTEXT

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01444348

**INFORMATION STORAGE MEDIUM INCLUDING APPLICATION FOR OBTAINING METADATA AND APPARATUS  
AND METHOD OF OBTAINING METADATA**

**SUPPORT DE STOCKAGE D'INFORMATION COMPRENANT UNE APPLICATION PERMETTANT D'OBTENIR DES  
METADONNEES, APPAREIL ET PROCEDE D'OBTENTION DE METADONNEES**

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	Country	Number	Kind	Date
Patent	WO	2006126837	A1	20061130
Application	WO	2006KR1971		20060525
Priorities	US	2005684533		20050526
	KR	1020050078016		20050824
	KR	1020050118841		20051207

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KM; KN; KP; KZ; LC; LK;  
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK;  
MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM;  
PG; PH; PL; PT; RO; RU; SC; SD; SE; SG;  
SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ;  
UA; UG; UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

IPC	Level	Value	Position	Status	Version	Action	Source	Office
G11B-0020/10	A	I	F	B	20060101		H	KR

Publication Language: English

Filing Language: English

Fulltext word count: 8068

**English Abstract:**

An information storage medium including an application for obtaining metadata for a disc library, and an apparatus and a method of obtaining the metadata. The information storage medium includes a network application to download metadata for a disc library from an external server to a reproducing apparatus for reproducing data from the information storage medium, wherein the metadata for a disc library has a structure including identifier information, version information, type information, disc information, and title information and is stored in the reproducing apparatus. Accordingly, the metadata for a disc library can be downloaded from the external server via a network.

**French Abstract:**

La presente invention concerne un support de stockage d'information qui comprend une application permettant d'obtenir des metadonnees pour une bibliotheque de disques, ainsi qu'un appareil et un procede d'obtention de metadonnees. Le support de stockage d'information comprend une application reseau qui telecharge les metadonnees pour une bibliotheque de disques depuis un serveur

externe a destination d'un appareil de reproduction en vue de reproduire les donnees du support de stockage d'information, lesdites metadonnees pour une bibliotheque de disques ayant une structure comprenant des informations d'identificateur, des informations de version, des informations de type, des informations de disque et des informations de titre, cette structure etant elle-meme stockee dans l'appareil de reproduction. De cette maniere, les metadonnees pour une bibliotheque de disques peuvent etre telechargees depuis un serveur externe via un reseau.

Type	Pub. Date	Kind	Text
Publication	20061130	A1	With international search report.

#### Detailed Description:

...140 includes type information in order to distinguish itself from other types. Hence, history type disc libraries can be distinguished from newly-released type disc libraries.

I50I The disc library manager 330 may control the metadata 120 for a newly-released disc library to be stored in an area of... disc library from the other. If metadata 120 downloaded from the external server is history type metadata 120 with a version higher than that of metadata 120 for a history type disc library read from an information storage medium 310 and stored in the local storage 320, the downloaded metadata 120 may be overwritten to the area for storing metadata 120 for a history type disc library read from an information storage medium 310. In another way, the disc library manager 330 may control newly-released type metadata 120 downloaded from the external server 410 to be allocated with a file name different from the file name for history type metadata 120, i.e., with an extension name.

1 As such, the storage of metadata 120 for a history type disc library and metadata for a newly-released type disc library in different ways contributes to an efficient user interface. For example, when only history type metadata 120 is wanted, the disc library manager 330 does not need to search for all of the metadata 120 stored in the local storage 320.

I52I The presentation engine 350 decodes a...

#### Claims:

...the local storage, and updates metadata that is stored in the local storage.

I32I 32. The reproducing apparatus as claimed in claim 25, wherein the disc library manager stores the metadata for the disc library in an area of the local storage.

I33I 33. The reproducing apparatus as claimed in claim... history type metadata has version information higher than the stored history type metadata.

I35I 35. The reproducing apparatus as claimed in claim 32, wherein the disc library manager allocates a file name to a new-released type metadata and stores the new-released type metadata with the file name; wherein: new-released type metadata is metadata about an information storage medium that has never been played back; history type metadata is metadata about an information storage medium that has ever been played back; and the history type metadata has an other file name.

I36I 36. The reproducing apparatus as claimed in claim 35, wherein a downloaded history type metadata overwrites a stored history type metadata if the downloaded history type metadata has version information higher than the stored history type metadata.

I37I 37. The reproducing apparatus as claimed in claim 25, wherein the disc library manager reads the metadata for the disc library from the information storage medium that the reproducing apparatus plays back, stores the metadata for the disc library in the local storage, and reads the metadata for the disc library from the local storage so as to display a user interface.

I38I 38. The reproducing apparatus as claimed in claim 25, wherein the disc library manager displays the metadata stored in the local storage to users...

12/5K/1 (Item 1 from file: 348)

EUROPEAN PATENTS

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01798128

**Updated data write method using a journaling filesystem**

Methode zum Schreiben von aktualisierten Daten mittels eines Journaling-Dateisystems

Methode d'écriture de données mises à jour utilisant un système de fichiers journalisé

**Patent Assignee:**

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(Applicant designated States: all)

**Inventor:**

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**Legal Representative:**

- **Strehl Schubel-Hopf & Partner (100941)**  
Maximilianstrasse 54; 80538 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1469399	A2	20041020	(Basic)
	EP	1469399	A3	20070124	
Application	EP	2003003069		20030212	
Priorities	JP	2002351929		20021204	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LI; LU; MC;  
NL; PT; SE; SI; SK; TR;

**Extended Designated States:**

AL; LT; LV; MK; RO;

**International Patent Class (V7):** G06F-017/30

IPC	Level	Value	Position	Status	Version	Action	Source	Office
G06F-0017/30	A	I	F	B	20060101	20040831	H	EP

**Abstract EP 1469399 A3**

A problem with a journaling file system is that the load on input/output processing executed between a server and a storage system is increased because a journal log is written when the file system is updated and updated data is written when flush processing is executed. In a system according to the present invention, a storage system (2) that has received journal logs from a server (1) uses updated data included in the journal logs to execute flush processing.

**Abstract Word Count: 80**

**NOTE: 1**

**NOTE: Figure number on first page: 1**

Type	Pub. Date	Kind	Text
------	-----------	------	------

Application:	20041020	A2	Published application without search report
Change:	20060531	A2	Title of invention (German) changed: 20060531
Change:	20060531	A2	Title of invention (English) changed: 20060531
Change:	20060531	A2	Title of invention (French) changed: 20060531
Search Report:	20070124	A3	Separate publication of the search report

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200443	1757
SPEC A	(English)	200443	7943
Total Word Count (Document A) 9702			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 9702			

**Specification:** ...of only one of meta data and user data. The journaling system in this embodiment may be applied to both methods. To include the update history of both meta data and user data into a journal log, the server 1 writes a journal log in the storage system 2 in response to a file update request and manages dirty data according to the update of each of meta data and user data. To include only the update history of meta data into a journal log, the server 1 writes a journal log indicating the update of meta data in response to a file update request and user data updated in the buffer memory 13 into the storage system 2 and manages dirty data according to the update of meta data.

FIG. 3 is a diagram showing an example of the data format of a journal log in this embodiment. The header 41 of the journal log, fixed in length, includes a...

12/5K/2 (Item 1 from file: 349)

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01055594

# **USING DISASSOCIATED IMAGES FOR COMPUTER AND STORAGE RESOURCE MANAGEMENT** **UTILISATION D'IMAGES DISSOCIEES POUR LA GESTION DE RESSOURCES MEMOIRE ET INFORMATIQUES**

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(Designated only for: US)

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(Designated only for: US)

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(Designated only for: US)

## **Patent Applicant/Inventor:**

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• **WHATCOTT Roland D**

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**Legal Representative:**

• **OGILVIE John W L(agent)**

Computer Law++, 1211 East Yale Avenue, Salt Lake City, UT 84105; US;

	Country	Number	Kind	Date
Patent	WO	200385526	A1	20031016
Application	WO	2003US10197		20030402
Priorities	US	2002370100		20020403

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Main International Patent Classes (Version 7):**

**IPC**

G06F-012/00

G06F-012/02

Publication Language:

Filing Language:

Fulltext word count:

**Level**

Main

English

English

14287

**English Abstract:**

The present invention provides tools and techniques for facilitating (314) management of storage (122), software (118), and other resources of a computer (102) at a distinct management computer (110) using a disassociated ample image (104) of a managed computer's storage. Ample images may be searched (310) to identify (414) infected files or illegal files, to extract (410) disk usage information, or for other reasons. Ample images may be modified (312) and then deployed (316) back to the original imaged computer and/or to other computers outside the management node. Modifications may change (502, 504, 506) application software, change (508, 510, 512) hardware drivers to match hardware changes on the target computer(s), manipulate (520) partitions, and/or perform other steps to optimize storage, software, or other resources.

**French Abstract:**

La presente invention concerne des outils et des techniques permettant de faciliter (314) la gestion d'une memoire (122), d'un logiciel (118) et d'autres ressources d'un ordinateur (102) au niveau d'un ordinateur de gestion (110) distinct a l'aide d'une image ample (104) dissociee de la memoire de l'ordinateur gere. Des images amples peuvent etre recherchees (310) afin d'identifier (414) des fichiers contamines ou des fichiers illegaux, afin d'extraire (410) des informations d'utilisation de disque, ou pour d'autres raisons. Des images amples peuvent etre modifiees (312) et ensuite redepolees (316) dans l'ordinateur balaye original et/ou dans d'autres ordinateurs a

l'exterieur du noeud de gestion. Des modifications peuvent permettre de modifier (502, 504, 506) le logiciel d'application, de modifier (508, 510, 512) les lecteurs materiels pour qu'ils correspondent aux changements materiels sur le(s) ordinateur(s) cible(s), de manipuler (520) des partitions, et/ou d'exécuter d'autres etapes visant a optimiser la memoire, le logiciel ou d'autres ressources.

Type	Pub. Date	Kind	Text
Publication	20031016	A1	With international search report.

#### Detailed Description:

...disruptive management of a real-time computing environinents than other tools, may reduce the number of copies of management software needed per node, may allow **storage management** to be centralized around one controlled set of images and **meta-data**, may allow **storage management** applications to view the **historical** conditions of a user(s)/computer and its environment, and/or may allow for the protection of computer 102 data by permitting environinents to be... ..associated environment.

Suitable software to assist in implementing the invention is readily provided by those of skill in the pertinent art(s) using the teachings presented here and programming languages and tools such as C++, C, Java, Pascal, Perl, Python, XML, APIs, SDKs, assembly, firmware, microcode, and/or other languages and..

19/5K/1 (Item 1 from file: 348)

EUROPEAN PATENTS

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01201166

Search engine user interface

Benutzerschnittstelle einer Suchmaschine

Interface utilisateur d'un moteur de recherche

#### Patent Assignee:

- **CANON KABUSHIKI KAISHA; (542361)**  
30-2, 3-chome, Shimomaruko, Ohta-ku; Tokyo; (JP)  
(Applicant designated States: all)

#### Inventor:

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#### Legal Representative:

- **Beresford, Keith Denis Lewis et al (28273)**  
BERESFORD & Co. 16 High Holborn; London WC1V 6BX; (GB)

	Country	Number	Kind	Date	
Patent	EP	1045314	A2	20001018	(Basic)
	EP	1045314	A3	20040609	
Application	EP	2000301911		20000308	
Priorities	GB	9908631		19990415	

#### Designated States:

DE; FR; GB; IT;

#### Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): G06F-017/30Abstract EP 1045314 A2

A database interface is provided for interfacing to a database having a plurality of sets of non-text data. Each set of non-text data has a descriptive text caption associated with it. An input text query is received and compared with the captions to determine the similarities between the input query and the captions. A display is controlled to display representations of a plurality of sets of non-text data which have captions which are the most similar to the input query and which are separated in accordance with similarities.

**Abstract Word Count: 89**

**NOTE: 1**

**NOTE: Figure number on first page: 1**

Type	Pub. Date	Kind	Text
Application:	20001018	A2	Published application without search report
Search Report:	20040609	A3	Separate publication of the search report
Examination:	20041222	A2	Date of request for examination: 20041022

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200042	4418
SPEC A	(English)	200042	9070
Total Word Count (Document A) 13488			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 13488			

**Specification:** ...of this embodiment of the present invention will now be described with reference to Figure 3 which illustrates the functional components of this embodiment.

A user interface 1 is provided which comprises a pointing device 2 such as a mouse, an input device 4 such as a keyboard and a display device 3. When a user inputs a query using the query input device 4, this is sent to the on-line similarity calculator 9. This will access meta data in the meta data database 6 via the storage device control 5 in order to identify the best match between the query and the meta data entries for the data. Once a best match has been...

19/5K/5 (Item 4 from file: 349)

PCT FULLTEXT

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01089893

**CONTENT MANAGEMENT SYSTEM**

**PRESERVATION DE DOCUMENT**

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**Patent Applicant/Inventor:**



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**Legal Representative:**

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Nixon Peabody LLP, 8180 Greensboro Drive, Suite 800, McLean, VA 22102; US;

	Country	Number	Kind	Date
Patent	WO	200412103	A2-A3	20040205
Application	WO	2003US22981		20030724
Priorities	US	2002398114		20020725

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Main International Patent Classes (Version 7):**

**IPC**

G06F-017/30

Publication Language:

Filing Language:

Fulltext word count:

**Level**

Main

English

English

8656

**English Abstract:**

Content, such as a document, in a native format and modality are acquired for preservation. A plurality of interfaces, specific to the type of content, receive the content to be preserved. The received content is indexed and preserved on a preservation media for an indefinite or predetermined amount of time. The media is specially selected such that preservation for an indefinite or predetermined amount of time is possible.

**French Abstract:**

Selon cette invention, un contenu, tel qu'un document, dans son format natif et sa modalité d'origine est acquis pour être préservé. Une pluralité d'interfaces, propres au type de contenu, reçoit le contenu à préserver. Le contenu reçu est indexé et préservé sur un support de préservation pendant une durée indéfinie ou prédéfinie. Le support est conçu spécialement pour que cette préservation pour une durée indéfinie ou prédéfinie soit possible.

Type	Pub. Date	Kind	Text
Publication	20040205	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20040408		Late publication of international search report

Republication	20040408	A3	With international search report.
Republication	20040408	A3	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

#### Detailed Description:

...and exporting duties of the preservation system 100, the preservation system 100, along with the cooperation of the document vault 200 and the user interface 500, allows for the administration of the preservation system 100. In particular, administration can relate to managing profiles, managing one or more indexes in a storage management subsystem 300, managing preservation or retrieval queues, managing user information and/or group information, access rights, metadata fanning techniques, or the like.

[00331 More specifically, document 105, such as a text document, word

6

processing document, book, magazine, or in general any...

19/5K/6 (Item 5 from file: 349)

PCT FULLTEXT

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00948222

#### ALTERNATIVE ADVERTISING IN PRE-RECORDED MEDIA

SOLUTION DE RECHANGE DE PUBLICITE SUR UN SUPPORT PRE-ENREGISTRE

#### Patent Applicant/Patent Assignee:

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(For all designated states except: US)
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US; US(Residence); US(Nationality)
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(Designated only for: US)
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(Designated only for: US)
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US; US(Residence); US(Nationality)  
(Designated only for: US)

#### Patent Applicant/Inventor:

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1225 Woods Road, Southampton, PA 18966; US; US(Residence); US(Nationality); (Designated only for: US)

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• **RYDER Douglas J**

3669 Concord Road, Doylestown, PA 18901; US; US(Residence); US(Nationality); (Designated only for: US)

**Legal Representative:**

• **RYDER Douglas J(agent)**

300 North Broad Street, Doylestown, PA 18901; US;

	Country	Number	Kind	Date
Patent	WO	200282374	A2-A3	20021017
Application	WO	2002US10645		20020403
Priorities	US	2001281037		20010403
	US	2001329992		20011017
	US	20016874		20011114

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Main International Patent Classes (Version 7):**

**IPC**

H04N-007/10

H04N-005/455

H04N-007/173

H04N-005/91

G06F-003/00

G06F-013/00

Publication Language:

Filing Language:

Fulltext word count:

**Level**

**Main**

**English**

**English**

**21193**

**English Abstract:**

Presenting viewers (1260) with an alternative brief version of a recorded advertisement (1720) when they choose to fast-forward through or skip (or any other trick play event) the recorded advertisement (1600). The alternative advertisement (1720) may be displayed instead of or in conjunction with the recorded advertisement (1600) (i.e., fast-forwarding advertisement is displayed in one portion of the screen (i.e., background or portion of a split screen) and the alternative brief version is displayed in another portion). The alternative brief version of the advertisement (1720) (trick play advertisement) may be a marketing message that is a static screen (940) presenting a logo or a portion of the recorded advertisement (1600), or may be condensed version of the actual advertisement. The trick play advertisements (1720) may be targeted. An alternate or entirely unrelated advertisement can also be displayed as the trick play advertisement (1720).

**French Abstract:**

L'invention vise a presenter a des spectateurs une breve version de solution de rechange d'une publicite enregistree lorsque ces derniers choisissent le mode avance rapide ou saut, ou toute autre mode de lecture rapide) pour visualiser la publicite enregistree. La solution de rechange peut etre affichee a la place de ou en sus de la publicite enregistree (p. ex., la publicite en mode avance rapide est affichee sur une partie de l'ecran, a savoir l'arriere plan ou une partie de l'ecran divise, et la version abregee de la solution de rechange est affichee dans une autre partie). Cette version de la publicite (publicite a lecture rapide) peut etre soit un message marketing, plus precisement un ecran statique presentant un logo ou une partie de la partie enregistree, soit etre une version condensee de la publicite actuelle. Les publicites a lecture rapide peuvent etre cibles. On peut egalement afficher une solution de recherche pour la publicite ou une publicite sans aucun rapport comme publicite a lecture rapide.

Type	Pub. Date	Kind	Text
Publication	20021017	A2	Without international search report and to be republished upon receipt of that report.
Examination	20030206		Request for preliminary examination prior to end of 19th month from priority date
Search Rpt	20030508		Late publication of international search report
Republication	20030508	A3	With international search report.

#### Detailed Description:

...the metadata storage 1028 can be replaced by an interface to an electronic program guide/interactive program guide ( EPG/IPG) if the EPG/IPG allows access to the program metadata.

to The user interface 628 supplies user events 1030 based on viewer interaction with the remote control and the front panel of the STB PVR. These events 1030 include channel changes, volume changes, and VCR-like controls of the PVR. The events 1030 are time stamped and filtered 1032 to remove events not likely to be relevant to generating a profile of a user.

19/5K/7 (Item 6 from file: 349)

PCT FULLTEXT

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00932133

#### STORAGE VIRTUALIZATION SYSTEM AND METHODS

#### SYSTEME ET PROCEDES DE VIRTUALISATION DE STOCKAGE

#### Patent Applicant/Patent Assignee:

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(For all designated states except: US)

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(Designated only for: US)

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(Designated only for: US)

#### Patent Applicant/Inventor:

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10676 Capilano St., Suite 604, Edmonton, Alberta T6A 3R9; CA; CA(Residence); CA(Nationality); (Designated only for: US)

**Legal Representative:**• **GRAY Gerald T(et al)(agent)**

Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111; US;

	<u>Country</u>	<u>Number</u>	<u>Kind</u>	<u>Date</u>
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Patent	WO	200265275	A1	20020822
Application	WO	2002US919		20020111
Priorities	US	2001261140		20010111

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Main International Patent Classes (Version 7):****IPC**

G06F-009/26

G06F-009/34

G06F-012/00

G06F-012/02

G06F-012/04

G06F-012/08

G06F-012/10

Publication Language:

Filing Language:

Fulltext word count:

**Level****Main****English****English****7757****English Abstract:**

Storage virtualization systems and methods that allow customers to manage storage as a utility rather than as islands of storage which are independent of each other. A demand mapped virtual disk image of up to an arbitrarily large size is presented to a host system. The virtualization system allocates physical storage from a storage pool dynamically in response to host I/O requests, e.g., SCSI I/O requests, allowing for the amortization of storage resources through a disk subsystem while maintaining coherency amongst I/O RAID traffic. In one embodiment, the virtualization functionality is implemented in a controller device, such as a controller card residing in a switch device or other network device, coupled to a storage system on a storage area network (SAN). The resulting virtual disk image that is observed by the host computer is larger than the amount of physical storage actually consumed.

**French Abstract:**

L'invention concerne un systeme et des procedes de virtualisation de stockage permettant a des utilisateurs de gerer un stockage comme une utilite plutot que comme des ilots de stockage independants les uns des autres. Une image de disque de demande mappee, jusqu'a une taille arbitrairement importante, est presentee a un systeme hote. Le systeme de virtualisation attribue dynamiquement un stockage physique a partir d'un ensemble de ressources de stockage en reponse aux requetes E/S d'hote, par exemple des requetes E/S SCSI, prenant en compte l'amortissement des ressources de stockage au moyen d'un sous-systeme de disque tout en maintenant la

coherence parmi le trafic d'E/S RAID. Dans une realisation, la fonctionnalite de virtualisation est mise en oeuvre dans un dispositif de commande, notamment une carte de commande residant dans un dispositif de commutation ou un dans un autre dispositif de reseau, couple a un systeme de stockage sur un reseau de zones de stockage (SAN). L'image de disque virtuel resultante observee par l'ordinateur hote est plus importante que la quantite de stockage physique existante.

Type	Pub. Date	Kind	Text
Publication	20020822	A1	With international search report.
Examination	20021212		Request for preliminary examination prior to end of 19th month from priority date

#### Detailed Description:

...allowed to access virtual disks. Various industry standard authentication systems can be used to authenticate which users are allowed to access which virtual disks. The security information is stored in the virtual disk's **Metadata**.

The ability to specify what free block format is being used. The usage of this is described in the section on freeing storage above.

The implementation of a **storage management** system (e.g., system 50 of Figure 1) is preferably out of band to the virtualization engine/module(s) and communicates via IP protocols. The implementation of graphics, user interfaces, and data base management are intuitive for someone skilled in the art of producing such systems and will not be discussed here.

#### V11. Revenue Model..

19/5K/11 (Item 10 from file: 349)

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00511582

**FILE SYSTEM PERFORMANCE ENHANCEMENT**

AMELIORATION DU RENDEMENT DES SYSTEMES DE FICHIERS

#### Patent Applicant/Patent Assignee:

• **STORM SYSTEMS LLC;**

;;

• **FAULKNER Michael R;**

;;

	Country	Number	Kind	Date
Patent	WO	9942934	A2	19990826
Application	WO	99US3710		19990219
Priorities	US	9875929		19980220

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

#### Main International Patent Classes (Version 7):

IPC  
G06F-017/30

Level  
Main

Publication Language:

English

Filing Language:

Fulltext word count:

19174

**English Abstract:**

Methods and apparatus that enhance the performance of computer file systems, and in particular the performance of read-only operations in such file systems. The invention can be implemented in a suite of computer program modules that together make up a performance enhancement product. The invention can transparently exist in an operating system after an initial setup is completed. The initial setup involves identifying what directories or files are to be monitored in order to intercept access requests for those files and to respond to those requests with enhanced performance. A system administrator can specify what directories or files are to be monitored. A high-performance index of monitored directories or files is maintained. When a monitored file is opened, a file identifier is used, thereby bypassing the access of any directory meta data information. In one embodiment, access to monitored files is enhanced by pinning files in the data cache maintained by the file system cache manager.

**French Abstract:**

L'invention porte sur des procedes et un appareil visant a ameliorer le rendement des systemes de fichiers informatiques, et notamment les operations de consultation de ces systemes de fichiers. Cette invention peut etre appliquee dans une suite de modules de programmes informatiques qui constituent un produit d'amelioration du rendement. Cette invention peut exister en mode transparent dans un systeme d'exploitation apres realisation d'une mise en oeuvre initiale. Cette mise oeuvre consiste a identifier les annuaires ou fichiers a controler de facon a intercepter des demandes d'acces pour ces fichiers et a mieux repondre a ces demandes. Un administrateur de systemes peut indiquer quels sont les annuaires ou fichiers a controler. Un repertoire haut rendement des annuaires ou fichiers est maintenu. Lorsqu'un fichier controle est ouvert, un identificateur de fichiers est utilise, detournant ainsi l'acces a toutes metadonnees de l'annuaire. Selon une realisation, on a un meilleur acces aux fichiers controles en rassemblant les fichiers dans l'antememoire de donnees conservee par le gestionnaire d'antememoire des systemes de fichiers.

**Claims:**

...conjunction with the regular file system after an initial setup is completed.

54 The method of claim 53, further comprising instructions to maintain in random access memory a distinct cache used only for meta data.

55 The method of claim 53), further comprising instructions to bypass directory-level security controls of the regular file system when bypassing a lookup operation.

56 The method of claim 53, further comprising instructions to maintain by the regular file system a cache of disk data in random access memory of the computer, control by the separate enhanced file system what data is maintained in the cache to discard data from a least recently used file; and interact with the user through a graphical user interface using a computer program application running in user mode on the computer.

57 The method of claim 40, wherein the regular file system is a...

31/5K/1 (Item 1 from file: 348)

EUROPEAN PATENTS

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01629050

**Use of Metadata Presort File to Sort Compressed Audio Files**

**Verwendung einer vorsortierten Metadatendatei zur Sortierung komprimierter Audiodateien**

**Utilisation d'un fichier contenant un tri préalable de metadonnees pour le tri de fichiers audio comprime**

**Patent Assignee:**

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(Applicant designated States: all)

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**Legal Representative:**

- **Holt, Michael et al (50428)**  
European Patents Department, Texas Instruments Limited, PO Box 5069; Northampton NN4 7ZE; (GB)

	Country	Number	Kind	Date	
Patent	EP	1343167	A2	20030910	(Basic)
	EP	1343167	A3	20041006	
	EP	1343167	A3	20041006	
Application	EP	2003100600		20030310	
Priorities	US	362796	P	20020308	
	US	259157		20020917	

**Designated States:**

DE; FR; GB;

**Extended Designated States:**

AL; LT; LV; MK; RO;

**International Patent Class (V7):** G11B-027/10; G11B-027/32; G11B-027/34Abstract EP 1343167 A2

A media system presorts media files thereby alleviating a media player from having to actively sort the files in real time. The system creates and uses presort information (86) with the media files. The presort information (88) contains a vector sort table (88) and one or more presort segments (90) listing the media files (92) in a previously presorted order according to different sorting criteria (94). The presort information (86) permits a user the ability to play the media files according to the presort segments (90) without the player itself having to include logic to sort the files. Broadly, the user selects one of the presorted segments (90) of media files (92) and the player plays the media files (92) in the specified order. In one embodiment, the media files contain audio data and the player comprises an audio CD player such as an MP3-compliant device.

**Abstract Word Count:** 148**NOTE:** 4**NOTE:** Figure number on first page: 4

Type	Pub. Date	Kind	Text
Application:	20030910	A2	Published application without search report
Change:	20031001	A2	Inventor information changed: 20030815
Change:	20031015	A2	Legal representative(s) changed 20030823
Search Report:	20041006	A3	Separate publication of the search report
Search Report:	20041006	A3	Separate publication of the search report
Examination:	20050608	A2	Date of request for examination: 20050406

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200337	398
SPEC A	(English)	200337	4884
Total Word Count (Document A) 5282			
Total Word Count (Document B) 0			



**Specification:** ...time can be on the order of a few seconds. Thus, it would take an annoyingly long period of time for a portable player to access and sort through the metadata of hundreds of audio files stored on the CD, and a large amount of memory to store all of the details. For these reasons and others, portable MP3 players generally do not provide the user the ability to sort through the files contained in the player. Instead, the user interface is limited to simply scrolling sequentially through the titles one at a time in the order they are burned.

Accordingly, a mechanism is needed by...

## NPL - bib

Set Items Description

S1 4026895 S VOLUME? ? OR UMD OR CD()ROM OR DVD OR STORAGE OR DISK OR DISKS OR DISC OR DISCS OR DISCOID? ? OR CARTRIDGE? ? OR FLASH OR SD OR (MULTIMEDIA OR MULTI()MEDIA OR PC OR MMC OR ATA OR SECURE()DIGITAL)()CARD? ? OR DONGLE? ? OR MICRO()VAULT()TINY? ? OR TAPE? ?

S2 155031 S S1 (5N) (MANAGE? ? OR MANAGING OR MANAGEMENT OR CONTROL?? OR CONTROLLED OR CONTROLLING OR MANIPULATE? ? OR MANIPULATING OR MANIPULATION? ?)

S3 69351 S (FILE? ? OR CONTENT? ? OR FOLDER? ?) (5N) (MANAGE? ? OR MANAGING OR MANAGEMENT OR CONTROL?? OR CONTROLLED OR CONTROLLING OR MANIPULATE? ? OR MANIPULATING OR MANIPULATION? ?)

S4 12250 S S3 AND S1

S5 23051 S METADATA OR META()DATA

S6 259 S S5 (10N) (HISTORY OR HISTORICAL OR (PAST OR PREVIOUS OR PRIOR OR EARLIER)(3W)(TRANSACTION? ? OR ACTIVITY OR ACTIVITIES OR ACTION? ? OR EVENT? ?))

S7 208267 S GUI OR GUIS OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()ICON()MENU()POINTER()INTERFACE? ?

S8 0 S (S2 OR S4) AND S6 AND S7

S9 2000 S S5 (10N) (ACCESS OR PERMISSION? ? OR SECURITY OR AUTHORI? OR RIGHTS OR PRIVILEGES)

S10 4 S (S2 OR S4) AND S9 AND S7

S11 2 S S10 NOT PY>2002

S12 2 RD (unique items)

S13 2 S S1 AND S6 AND S7

S14 2 S S13 NOT S12

; show file

[File 8] Ei Compendex(R) 1884-2007/Jan W3

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\*File 8: The file has been reprocessed and accession numbers have changed. See HELP NEWS988 for details.

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*\*File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.*

[File 111] **TGG Natl.Newspaper Index(SM)** 1979-2007/Jan 29

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[File 6] **NTIS** 1964-2007/Jan W4

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[File 144] **Pascal** 1973-2007/Jan W3

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[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec

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[File 34] **SciSearch(R) Cited Ref Sci** 1990-2007/Jan W3

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[File 62] **SPIN(R)** 1975-2007/Jan W2

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[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Dec

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[File 95] **TEME-Technology & Management** 1989-2007/Jan W4

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[File 56] **Computer and Information Systems Abstracts** 1966-2007/Jan

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[File 60] **ANTE: Abstracts in New Tech & Engineer** 1966-2007/Jan

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[File 266] **FEDRIP** 2006/Dec

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*\*File 583: This file is no longer updating as of 12-13-2002.*

[File 438] **Library Lit. & Info. Science** 1984-2007/Dec

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[File 256] **TecInfoSource** 82-2007/Aug

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12/5/1 (Item 1 from file: 2)

**INSPEC**

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06739614 **INSPEC Abstract Number: C9712-7190-026**

**Title: How to organize agro-ecological metadata**

**Author** Zamperoni, D.; Behling, G.; Wenderoth, C.

**Conference Title:** Proceedings of Eco-Informa '96. Global Networks for Environmental Information **Part vol.2** p. 683-8 vol.2

**Publisher:** Environ. Res. Inst. Michigan, Ann Arbor, MI, USA

**Publication Date:** 1996 **Country of Publication:** USA 2 vol. xxxviii+1027 pp.

**ISBN:** 0 9603590 7 9 **Material Identity Number:** XX97-02372

**Conference Title:** Proceedings of Meeting on Global Networks for Environmental Information: Bridging the Gap Between Knowledge and Application

**Conference Sponsor:** Environ. Res. Inst. Michigan, ERIM; Epcot Sci. & Technol.; NASA; et al

**Conference Date:** 4-7 Nov. 1996 **Conference Location:** Lake Buena Vista, FL, USA

**Language:** English **Document Type:** Conference Paper (PA)

**Treatment:** Applications (A); Practical (P)

**Abstract:** Within the scope of the "Forschungsverbund Agrarokosysteme Munchen" (FAM: "Research Compound Agroecosystems Munich"), it was necessary to develop a special-purpose system to enter, store, retrieve, manage, and plot large amounts of agro-ecological data. The large variety of topics of this data makes it necessary to keep secondary information, the so-called metadata, which can be used to interpret the data itself and organize the access to it. The basis of our metadata information system is an extended entity-relationship model in which it is possible to capture the metadata by defining and using hierarchical class, field and field-detail structures freely. To handle the metadata in a user-friendly way, we implemented a graphical user interface on top of the agro-ecological metadata information system. To provide easy and sophisticated remote access to the database, we additionally developed hypertext pages, using HTML, C. and embedded SQL. ( 1 Refs)

**Subfile:** C

**Descriptors:** agriculture; data acquisition; ecology; entity-relationship modelling; graphical user interfaces; hypermedia; information retrieval; information storage; information systems; storage management

**Identifiers:** agro-ecological metadata; Research Compound Agroecosystems Munich; FAM; data storage; data retrieval; data management; data plot; data interpretation; information system; entity-relationship model; metadata capture; hierarchical class; field-detail structures; graphical user interface; remote access; hypertext pages; HTML; C language; embedded SQL

**Class Codes:** C7190 (Other fields of business and administrative computing); C7250 ( Information storage and retrieval); C6120 (File organisation); C6160 ( Database management systems (DBMS)); C6180G (Graphical user interfaces); C6130M (Multimedia); C7330 (Biology and medical computing)

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14/5/1 (Item 1 from file: 8)

Fulltext available through: [SCIENCEDIRECT](#)

Ei Compendex(R)

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09214782 E.I. No: EIP02477229449

**Title:** Proceedings of SPIE: Internet multimedia management system III

**Author:** Smith, J.R. (Ed.); Panchanathan, S. (Ed.); Zhang, T. (Ed.)

**Conference Title:** Internet Multimedia Management Systems III

**Conference Location:** Boston, MA, United States **Conference Date:** 20020731-20020801

**Sponsor:** SPIE

**E.I. Conference No.:** 60233

**Source:** Proceedings of SPIE - The International Society for Optical Engineering v 4862 2002. 326p

**Publication Year:** 2002

**CODEN:** PSISDG **ISSN:** 0277-786X

**Language:** English

**Document Type:** CP; (Conference Review) **Treatment:** T; (Theoretical)

**Journal Announcement:** 0212W1

**Abstract:** The proceedings contains 30 papers from the Proceedings of SPIE: Internet Multimedia Management Systems III. Topics discussed include: analysis of multimedia formats for content description; generic mapping mechanism between content description metadata and user environments; metadata-based access to multimedia architectural and historical archive collections; relevance feedback as distribution generation; and extending relevance feedback with a group-based user interface. (Edited abstract)

**Descriptors:** \*Multimedia systems; Metadata; Shock waves; ROM; Hard disk storage; Bandwidth; Quality of service; World Wide Web; Computer terminals; XML; Personal digital assistants; Computer architecture; Digital libraries

**Identifiers:** Multimedia formats; User environment (UE); Multimedia archival collections; Intelligent multimedia presentation; Multimedia management; Ontology-based image retrieval; Multidimensional scalings; Video querying; Distribution generation; EiRev

**Classification Codes:**

903.4.1 (Libraries)

723.5 (Computer Applications); 722.1 (Data Storage, Equipment & Techniques); 716.1 (Information & Communication Theory);

722.2 (Computer Peripheral Equipment); 903.4 (Information Services); 731.1 (Control Systems); 723.2 (Data Processing); 903.2 (Information Dissemination)

723 (Computer Software, Data Handling & Applications); 931 (Applied Physics Generally); 722 (Computer Hardware); 716 (Electronic Equipment, Radar, Radio & Television); 903 (Information Science); 731 (Automatic Control Principles & Applications) 72 (COMPUTERS & DATA PROCESSING); 93 (ENGINEERING PHYSICS); 71 (ELECTRONICS & COMMUNICATION ENGINEERING); 90 (ENGINEERING, GENERAL); 73 (CONTROL ENGINEERING)

14/5/2 (Item 1 from file: 2)

Fulltext available through: USPTO Full Text Retrieval Options SCIENCEDIRECT

INSPEC

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07969036 INSPEC Abstract Number: C2001-08-7110-012

**Title:** Development and operation of a document database for university research and education activities

**Author** Nonaka, Y.; Inoue, S.; Hatano, K.; Harada, T.; Nomura, Y.; Iwaihara, M.; Mine, T.; Ushijima, K.

**Author Affiliation:** Graduate Sch. of Inf. Sci. & Electr. Eng., Kyushu Univ., Fukuoka, Japan

**Journal:** Transactions of the Institute of Electronics, Information and Communication Engineers D-I vol.J84D-I, no.6 p. 974-86

**Publisher:** Inst. Electron. Inf. & Commun. Eng.

**Publication Date:** June 2001 **Country of Publication:** Japan

**CODEN:** DTRDES **ISSN:** 0915-1915

**SICI:** 0915-1915(200106)J84DI:6L:974:DODD;1-G

**Material Identity Number:** M972-2001-007

**Language:** Japanese **Document Type:** Journal Paper (JP)

**Treatment:** Practical (P)

**Abstract:** The academic staff research and education activity database of Kyushu University is a document database system which supports academic staff during the input and updating of activity reports, administrators during the maintenance of the database, and visitors during the searching and reading of reports via the Internet. Those databases and user interfaces can handle mixed report formats by storing meta data of formats and constraints. By analysing the update history of the system and e-mail records between users and developers, we have confirmed that the distributed administration style reduces human workload and the majority of bugs are confined to small components. ( 8 Refs)

**Subfile:** C

**Descriptors:** database management systems; educational administrative data processing; Internet; user interfaces

**Identifiers:** document database; academic staff research and education activity database; Kyushu University; activity report updating; activity report input; database maintenance; report searching; report reading; Internet; user interfaces; mixed report formats; meta data storage; constraints; update history; e-mail records; distributed administration

**Class Codes:** C7110 (Educational administration); C6160 (Database management systems (DBMS))

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7/3,K/1 (Item 1 from file: 636)

Gale Group Newsletter DB(TM)

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05359409 Supplier Number: 87798125 (USE FORMAT 7 FOR FULLTEXT)

**Putting a Century of Coca-Cola Online.**

Millimeter , p NA

Feb 1 , 2002

**Language:** English **Record Type:** Fulltext

**Document Type:** Magazine/Journal ; Trade

**Word Count:** 638

...Unix), doing the heavy lifting involved in searching, organizing, and massaging the database. Meanwhile, the other server runs Windows 2000, providing a Web browser-like **user interface**. Optibase's Movie Maker Plus encoding cards convert analog video to digital, with Virage's Video Logger doing ingest duties. IBM's tape systems provide backup.

The client/server duo Lotus Notes and Lotus Domino handles the **user interface**, messaging, and other e-business operations. Tivoli **Storage Manager** oversees centralized **storage management** and data backup. Finally, IBM's Business Innovation Services ...elaborate searches start off with a simple keyword or two. With that, the system searches multiple repositories, opening either text files or graphics. The attached **metadata** quickly lets them know important info such as copyright, **history** of use, and location of original material.

"Coca-Cola is at the very early stage of an important new trend," says Dick Anderson, general manager...

**NPL - fulltext**

[Set Items Description

S1 11375615 S VOLUME? ? OR UMD OR CD()ROM OR DVD OR STORAGE OR DISK OR DISKS OR DISC OR DISCS OR DISCOID? ? OR CARTRIDGE? ? OR FLASH OR SD OR (MULTIMEDIA OR MULTI()MEDIA OR PC OR MMC OR ATA OR SECURE()DIGITAL)()CARD? ? OR DONGLE? ? OR MICRO()VAULT()TINY? ? OR TAPE? ?

S2 605922 S S1 (5N) (MANAGE? ? OR MANAGING OR MANAGEMENT OR CONTROL?? OR CONTROLLED OR CONTROLLING OR MANIPULATE? ? OR MANIPULATING OR MANIPULATION? ?)

S3 147872 S.S1 (50N) ( (FILE? ? OR CONTENT? ? OR FOLDER? ? OR DOCUMENT? ?) (5N) (MANAGE? ? OR MANAGING OR MANAGEMENT OR CONTROL?? OR CONTROLLED OR CONTROLLING OR MANIPULATE? ? OR MANIPULATING OR MANIPULATION? ?))

S4 220032 S METADATA OR META()DATA

S5 745 S S4 (10N) (HISTORY OR HISTORICAL OR (PAST OR PREVIOUS OR PRIOR OR EARLIER)(3W)( TRANSACTION? ? OR ACTIVITY OR ACTIVITIES OR ACTION? ? OR EVENT? ?))

S6 610631 S GUI OR GUIS OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()ICON()MENU()POINTER()INTERFACE? ?

S7 1 S (S2 OR S3) (30N) S5 (30N) S6

S8 116826 S S4 (10N) (ACCESS OR PERMISSION? ? OR SECURITY OR AUTHORI? OR RIGHTS OR PRIVILEGES)

S9 45 S (S2 OR S3) (30N) S8 (30N) S6

S10 14 S S9 NOT PY>2002  
S11 6 RD (unique items)  
S12 23 S S1 (30N) (S5 OR S8) (30N) S6  
S13 7 S S12 NOT PY>2002  
S14 5 S S13 NOT S11  
S15 2 RD (unique items)

; show files

[File 88] **Gale Group Business A.R.T.S.** 1976-2007/Jan 29  
(c) 2007 The Gale Group. All rights reserved.

[File 369] **New Scientist** 1994-2007/Oct W4  
(c) 2007 Reed Business Information Ltd. All rights reserved.

[File 160] **Gale Group PROMT(R)** 1972-1989  
(c) 1999 The Gale Group. All rights reserved.

[File 635] **Business Dateline(R)** 1985-2007/Jan 30  
(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 15] **ABI/Inform(R)** 1971-2007/Jan 30  
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[File 16] **Gale Group PROMT(R)** 1990-2007/Jan 29  
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[File 13] **BAMP** 2007/Jan W2  
(c) 2007 The Gale Group. All rights reserved.

[File 810] **Business Wire** 1986-1999/Feb 28  
(c) 1999 Business Wire . All rights reserved.

[File 610] **Business Wire** 1999-2007/Jan 30  
(c) 2007 Business Wire. All rights reserved.

*\*File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 647] **CMP Computer Fulltext** 1988-2007/Apr W1  
(c) 2007 CMP Media, LLC. All rights reserved.

[File 98] **General Sci Abs** 1984-2007/Jan  
(c) 2007 The HW Wilson Co. All rights reserved.

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jan 23  
(c)2007 The Gale Group. All rights reserved.

[File 634] **San Jose Mercury** Jun 1985-2007/Jan 28  
(c) 2007 San Jose Mercury News. All rights reserved.

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jan 29  
(c) 2007 The Gale Group. All rights reserved.

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Jan 23  
(c) 2007 The Gale group. All rights reserved.

[File 75] **TGG Management Contents(R)** 86-2007/Jan W3

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[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Jan 29

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[File 624] **McGraw-Hill Publications** 1985-2007/Jan 30

(c) 2007 McGraw-Hill Co. Inc. All rights reserved.

*\*File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 484] **Periodical Abs Plustext** 1986-2007/Jan W3

(c) 2007 ProQuest. All rights reserved.

[File 613] **PR Newswire** 1999-2007/Jan 30

(c) 2007 PR Newswire Association Inc. All rights reserved.

*\*File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 813] **PR Newswire** 1987-1999/Apr 30

(c) 1999 PR Newswire Association Inc. All rights reserved.

[File 141] **Readers Guide** 1983-2007/Nov

(c) 2007 The HW Wilson Co. All rights reserved.

[File 239] **Mathsci** 1940-2007/Feb

(c) 2007 American Mathematical Society. All rights reserved.

[File 370] **Science** 1996-1999/Jul W3

(c) 1999 AAAS. All rights reserved.

*\*File 370: This file is closed (no updates). Use File 47 for more current information.*

[File 696] **DIALOG Telecom. Newsletters** 1995-2007/Jan 29

(c) 2007 Dialog. All rights reserved.

[File 553] **Wilson Bus. Abs.** 1982-2007/Jan

(c) 2007 The HW Wilson Co. All rights reserved.

[File 621] **Gale Group New Prod. Annou.(R)** 1985-2007/Jan 23

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[File 674] **Computer News Fulltext** 1989-2006/Sep W1

(c) 2006 IDG Communications. All rights reserved.

*\*File 674: File 674 is closed (no longer updates).*

[File 20] **Dialog Global Reporter** 1997-2007/Jan 30

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11/3,K/1 (Item 1 from file: 15)

ABI/Inform(R)

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02249611

88499974

**Web document digital archive assures content permanence**

O Leary, Mick

Econtent v24n9 pp: 60-61

Nov 2001

ISSN: 1525-2531 Journal Code: DTB

Word Count: 1134

Text:

...the document, not merely of its content, but also of its surrounding technical environment: operating system, peripherals, browsers, etc. The document and its accompanying "preservation metadata" are stored in a formats that will allow access by subsequent generations of software and hardware.

Finally, WDDA will provide for ongoing user accessibility. Surface notes, "The system will have the ability to develop new interfaces, or to allow any kind of user interface for discovery as technology changes. The digital archive is separate from the discovery mechanism for the objects in the archive. For each object, there would...

11/3,K/2 (Item 1 from file: 16)

Gale Group PROMT(R)

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07053029 Supplier Number: 58380134 (USE FORMAT 7 FOR FULLTEXT)

**Asset Management: The Forward March Continues.(Seybold Seminars, Boston 1999)(Industry Trend or Event)**

The Seybold Report on Publishing Systems , v 28 , n 13 , p NA

March 29 , 1999

Language: English Record Type: Fulltext

Document Type: Newsletter ; Trade

Word Count: 2671

...security to the asset level), and facilities to enable Web clients to search and view assets. The system consists of a three-tier architecture:

- \* The content management layer includes the database, which can store fielded data, document formats, binary large objects (BLOBs) and XML data.

- \* The business logic layer manages the storage and transformation of electronic assets into individual publications.

- \* The user interface transforms individual electronic assets into visible publications, such as printed documents or Web pages.

Oracle 8i Intermedia allows TEAMS to build complex queries with access...

...or specific metadata. This allows searches across all asset types with a single query. The system bundles a standard model with support for dozens of metadata attributes. In addition, based on security permissions, metadata can be edited to provide catalog and index information about an asset. Some of the metadata fields are captured automatically during import.

Assets can be...

11/3,K/3 (Item 2 from file: 16)

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05477267 Supplier Number: 48300434 (USE FORMAT 7 FOR FULLTEXT)



**Informatica Ships New Software For Building And Managing Enterprise-Scalable Data Marts And Data Warehouses**

PR Newswire , p 0217LATU057

Feb 17 , 1998

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 1134

...at First American has been one of high performance and scalability, and PowerMart 4.0 does not disappoint. Its combination of an easy-to-use GUI and a robust extraction and transformation engine has allowed The Bank's analysts to dig deeper and more quickly than ever into our corporate data...

...management and control capabilities of PowerCenter. This incremental data warehouse deployment is enabled by new core Informatica technologies included in both products such as global metadata sharing, distributed server management, user level security, and mainframe file support.

PowerMart 4.0 is the latest release of Informatica's market-leading software suite for building and managing departmental data marts and data warehouses. This latest version of PowerMart leverages Informatica's unique and powerful multi-platform, component-based transformation engine to handle more complex transformations and significantly larger volumes of data. Other major features include an enhanced data flow development environment, support for heterogeneous joins, advanced scheduling and error recovery capabilities, a Multi-Dimensional...

11/3,K/5 (Item 1 from file: 610)

Business Wire

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00821402 20021209343B6226 (USE FORMAT 7 FOR FULLTEXT)

**Sistina Announces New Version of Logical Volume Manager in Linux Kernel for Robust, Flexible Volume Management**

Business Wire

Monday , December 9, 2002 09:49 EST

**Journal Code:** BW **Language:** ENGLISH **Record Type:** FULLTEXT **Document Type:** NEWSWIRE

**Word Count:** 597

Sistina LVM supports enterprise-level volume management of disk and disk subsystems by grouping arbitrary disks into volume groups, which can then be accessed as regular block devices. LVM 2.0 is fully compatible with previous standard LVM versions while providing important high availability features such as transactional replicated metadata. In order to ensure uninterrupted access to the storage, continual availability of the key

metadata is an essential component for enterprise users. Sistina LVM also provides ease of management for system administrators and end-users by allowing them to upgrade...

...environment where storage is dynamic and rapidly growing," said Guðbjörn Hreinsson, technical director for Iceland Telecom. "I have not found any other better solution providing volume management for my Linux environment."

#### LVM 2.0 Highlights

The newest version of Sistina LVM supports many enhanced features for increased performance and flexibility including:

- Transactional metadata updates ensure integrity of key volume mapping data
  - User interface and metadata compatible with LVM 1.0
- in order
- to support smooth migration to LVM 2.0
  - Robust Application Program Interface (API) available for use...

15/3,K/1 (Item 1 from file: 15)

ABI/Inform(R)

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01048480 96-97873

**Digital spatial libraries: A context for engineering and library collaboration**

Beard, Kate

Information Technology & Libraries v14n2 pp: 79-85

Jun 1995

ISSN: 0730-9295 Journal Code: JLA

Word Count: 4281

**Text:**

...overcome in building a digital spatial data library. Such impediments include, for example:

- \* poor understanding of user requirements and lack of a sound basis for user interface design;
- \* the lack of appropriate models for both data and metadata;
- \* technical problems in supporting an appropriate browse capability for distributed access;
- \* the lack of appropriate spatial indexes and tiling systems to accommodate a wide variety of queries; and
- \* performance problems due to the large-volume characteristic of spatial information.

In Project Alexandria, each of these impediments is being addressed by multidisciplinary teams. Approaches to resolving some of these impediments are...